

**Section-by-Section Analysis of H.R. 1215,
*The Green Chemistry Research and Development Act of 2005***

Sec. 1. Short Title

“Green Chemistry Research and Development Act of 2005”

Sec. 2. Definitions

Defines terms used in the text.

Sec. 3. Green Chemistry Research and Development Program

Establishes an interagency research and development (R&D) program to promote and coordinate Federal green chemistry research, development, demonstration, education, and technology transfer activities. The program will provide sustained support for green chemistry R&D through merit-reviewed competitive grants to researchers, teams of researchers, and R&D partnerships of universities, industry, and nonprofit organizations, and through R&D conducted at Federal laboratories.

The program will provide support for, and encouragement of, the application of green chemistry through encouragement of consideration of green chemistry in all Federally-funded chemical science and engineering R&D; examination of methods to create incentives for the use of green chemistry; promotion of the education and training of undergraduate and graduate students and professional chemists and chemical engineers in green chemistry; collection and dissemination of information on green chemistry R&D and technology transfer; provision of venues for outreach and dissemination of green chemistry advances such as symposia, forums, conferences, and written materials; support for social science research to identify barriers to adoption of green chemistry; and provision for public input.

Establishes an interagency working group composed of representatives from the National Science Foundation, the National Institute for Standards and Technology, the Department of Energy, the Environmental Protection Agency, and any other agency that the President may designate, to oversee the planning, management, and coordination of all Federal green chemistry R&D activities. Names the Director of the National Science Foundation and the Assistant Administrator for R&D at the Environmental Protection Agency as co-chairs and requires the group to establish goals and priorities for the program and provide for interagency coordination, including budget coordination.

Requires that each participating agency submit to the Office of Management and Budget, as part of its annual request for appropriations, a report that identifies all activities that directly relate to the program. Also requires that, as part of the President’s budget request, each agency list the portion of their budget that is dedicated to activities carried out under the program.

Requires the group to submit a report to the Committee on Science of the House of Representatives and the Committee on Commerce, Science and Transportation of the Senate

within two years that includes a summary of Federally-funded green chemistry activities and an analysis of the progress made towards the goals and priorities established for the program, including recommendations for future program activities.

Sec. 4. Manufacturing Extension Center Green Suppliers Network Grant Program

Amends the National Institute of Standards and Technology Act to include as an authorized activity in the manufacturing extension program the enabling of supply chain manufacturers to reduce the use or generation of hazardous substances.

Sec. 5. Undergraduate Education in Chemistry and Chemical Engineering

Creates a grant program at the National Science Foundation to award competitive grants to institutions of higher education for the purpose of revising their undergraduate chemistry and chemical engineering curricula to incorporate green chemistry. Cost sharing in cash is required of all participating institutions of higher education. In addition to the sums authorized in Section 7, the National Science Foundation is authorized from sums already authorized to be appropriated \$7,000,000, \$7,500,000, and \$8,000,000 in FY06-FY08, respectively.

Sec. 6. Study on Commercialization of Green Chemistry

Requires the Director of the National Science Foundation to enter into an agreement with the National Research Council to conduct a study of the barriers to commercialization of green chemistry products and processes.

Sec. 7. Authorization of Appropriations

Authorizes appropriations for green chemistry R&D programs, from sums already authorized to be appropriated, at the National Science Foundation, the National Institute of Standards and Technology, the Department of Energy, and the Environmental Protection Agency.

| Agency | FY06 (millions \$) | FY07 (millions \$) | FY08 (millions \$) |
|---------------|---------------------------|---------------------------|---------------------------|
| NSF | 7 | 7.5 | 8 |
| NIST | 5 | 5.5 | 6 |
| DOE | 7 | 7.5 | 8 |
| EPA | 7 | 7.5 | 8 |
| Total | 26 | 28 | 30 |

From sums already authorized to be appropriated for each of the agencies.